

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW INTERSECTION CONTROL BEACON AT THE PARK-N-RIDE LOT AT I-270 OFF-RAMP (EXIT 10 NB) IN MONTGOMERY COUNTY. THE OFF-RAMP (AT PARK-N-RIDE ENTRANCE) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION:

THIS INTERSECTION WILL OPERATE IN A FLASHING MODE, WITH FLASHING YELLOW FOR SOUTHBOUND TRAFFIC AND FLASHING RED FOR NORTHBOUND AND EASTBOUND TRAFFIC.

CONTROLLER REQUIREMENTS:

AN EIGHT-PHASE CONTROLLER HOUSED IN A NEMA SIZE 6 BASE MOUNTED CABINET.

MAINTENANCE OF TRAFFIC

MAINTENANCE OF TRAFFIC WILL BE HANDELED BY THE CONTRACTOR, USING THE RELEVANT PORTION OF THE CONTRACT DOCUMENT.

PROJECT CONTACTS

1) THE FOLLOWING ARE SHA DISTRICT 3 CONTACT PERSONS:

MR. RICHARD L. DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS  
DIVISION (410) 787-7630

MR. CHARLES WATKINS  
DISTRICT ENGINEER  
(301) 513-7311

MR. MAJID SHAKIB  
ASST. DISTRICT ENGINEER-TRAFFIC  
(301) 513-7358

MR. RALEIGH MEDLEY  
ASST. DISTRICT ENGINEER-MAINTENANCE  
(301) 513-7304

MR. AUGUSTINE REBISH  
DISTRICT ENGINEER-UTILITY  
(301) 513-7350

2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING ALL CABLES INTO THE BASE OF THE CONTROLLER CABINET AND PROPERLY TAG / LABEL EACH CABLE. [MONTGOMERY COUNTY FORCES SHALL BE RESPONSIBLE FOR INTERNAL WIRING].

EQUIPMENT LIST A

A. EQUIPMENT FURNISHED AND/OR INSTALLED BY THE ADMINISTRATION

CATEGORY CODE	QTY.	UNITS	Specification SECTION	DESCRIPTION
900000	1	EA	816	Eight-phase (fully actuated) controller and cabinet - base mount.
900000	21	SF	813	Sheet aluminum signs consisting of:
	1	EA	XXX	R3-5L (30"x 36")
	2	EA	XXX	R1-1 (30"x 30")

EQUIPMENT LIST B

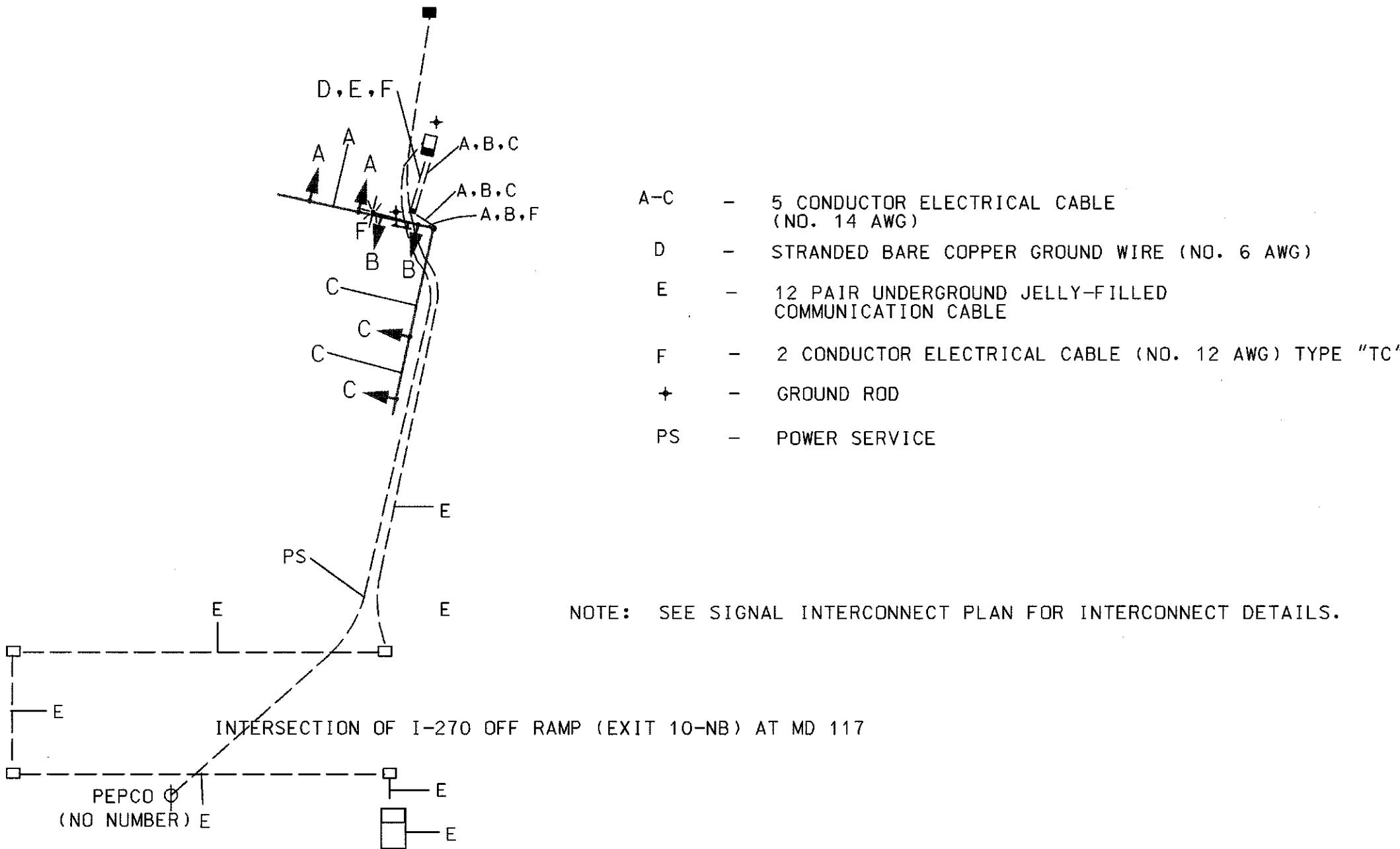
B. EQUIPMENT FURNISHED AND/OR INSTALLED BY CONTRACTOR.

CATEGORY CODE	QTY.	UNITS	Specification SECTION	DESCRIPTION
585416	60	LF	555	24 in. white reflective thermoplastic pavement marking.
818050	1	EA	555	Furnish and install 27' steel pole with twin 50 foot and 60 foot mast arms. (Use 4-2 in. X 90 in. anchor bolts.)
802501	180	LF	805	Furnish and install no.6 AWG stranded bare copper ground wire.
805135	1200	LF	805	Furnish and install 3 in. schedule 80 rigid PVC conduit - trenched.
811001	2	EA	811	Furnish and install electrical handhole.
870166	200	LF	805	Furnish and install 4" schedule 80 electrical conduit - trenched.
822002	500	LF	XXX	Furnish and install 12-pair communication cable, jelly-filled (underground)
837001	2	EA	804	Furnish and install ground rod - 3/4 in. diameter X 10 ft.
860272	6	EA	814	Furnish and install signal head - 12 in. vehicular traffic signal head section.
861107	275	LF	810	Furnish and install electrical cable - 5 conductor (No. 14 AWG).
871202	1	EA	816	Install controller & cabinet-base mount.
203030	1.5	CY	205	Test pit excavation.
801004	5	CY	801	Furnish and install concrete for signal foundation.
807205	1	EA	807	Furnish and install control & distribution equipment.
813015	8	SF	813	Install overhead sign.
801106	32	LF	812	Furnish and install wood sign supports 4"x 6".
800000	100	LF	XXX	Furnish and install 2 conductor electrical cable (No. 14 AWG) type "TC".
831010	1	EA	806	Furnish and install 250w hps sodium lamp and luminaire with photocell.
866104	1	EA	818	Furnish and install 20 ft. lighting arm on signal structure.
813014	13	SF	813	Install ground mounted sign.
805155	100	LF	805	Furnish and install 4" schedule 80 electrical conduit - slotted

EQUIPMENT LIST C

ALL REMOVED SIGNAL MATERIAL ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	
	(R)	(R)	(Y)	(Y)	(R)	(R)	
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	

**DCI**  
CONSULTING ENGINEERS  
COLUMBIA, MARYLAND

REVISIONS	APPROVALS
	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
*Office of Traffic & Safety*  
**TRAFFIC ENGINEERING DESIGN DIVISION**  
GENERAL INFORMATION SHEET  
**I- 270 (EXIT 10-NB) OFF RAMP  
AT PARK AND RIDE ENTRANCE**

DRAWN BY: A.FORNARO	F.A.P. NO. SEE TITLE SHEET	TS NO. 4110	SHEET NO. 143 OF 191
CHECKED BY: TK/ME	S.H.A. NO. M07915171		
SCALE: 1"=20'	COUNTY: MONTGOMERY	T.I.M.S. NO. D684	
DATE: JUNE 11, 2001	LOG MILE:		

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